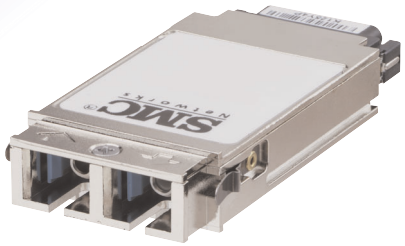
Tranceivers

# Gigabit Interface Converters (GBIC)

**Model Number:** SMCBGSSCX1, SMCBGLSCX1, SMCBGZSCX1



SMC Networks provides GBIC solutions for high-speed, full-duplex Gigabit Ethernet connectivity. SMC Networks's GBIC line allows the user to plug into any GBIC slot in our Tiger line. This flexibility combined with hot-pluggable support allows for simple Gigabit Ethernet network expansion.

SMC Networks has both short-haul and long-haul GBIC solutions for your networking needs. From short ranged SMCBGSSCX1 to the long reaching SMCBGZSCX1, SMC Networks has the GBIC solution for you.

## Overview

### Features

- Up to 1.25Gb/s bi-directional data links
- Extended operating ambience range (0°)C to 60°C)
- Extended power supply voltage (3.3V and 5V)
- Hot-Pluggable/Swappable
- Fully metallic enclosure for low EMI
- Low power dissipation

### Compatibility

| | |
|---|---|
| • SMC8606T | Standalone 6-port 10/100/1000 Switch with 2 GBIC slots |
| • SMC8606SX | Standalone 6-port 1000BASE-SX Switch with 2 GBIC slots |
| • SMC7712GB | GBIC Module for SMC772M/VSW |

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## SMCBGLSCX1, SMCBGLSCX1, SMCBGLSCX1

### Physical Description

**Connector**

- Dual SC connector

**Maximum Link Span**

- SMCBGSSCX1 – Up to 550m
- SMCBGLSCX1- Up to 10Km
- SMCBGZSCX1 – Up to 100km, depending on various factors such as fiber quality, number of splices, and connectors

**Temperature Range**

- Operating : 0 to 60°C
- Storage: -10 to 85°C

**Regulatory And Standards Compliance**

- Safety
- Eye Safety CDRH and IEC-825 Class 1 Laser

**Cabling Overview**

| GBIC | Wavelength (nm) | Fiber type | Core size (micron) | Modal bandwidth (MHz/km) | Cable distance |
|---|---|---|---|---|---|
| SMCBGSSCX1 | 850 | MMF | 62.5 | 160 | 722 ft (220 m) |
| | | | 62.5 | 200 | 902 ft (275 m) |
| | | | 50.0 | 400 | 1640 ft (500 m) |
| | | | 50.0 | 500 | 1804 ft (550 m) |
| SMCBGLSCX1 | 1300 | MMF | 62.5 | 500 | 1804 ft (550 m) |
| | | | 50.0 | 400 | 1804 ft (550 m) |
| | | SMF | 50.0 | 500 | 1804 ft (550 m) |
| | | | 9/10 | N/A | 6.2 miles (10 km) |
| SMCBGZSCX1 | 1550 | SMF | 9/10 | N/A | 43.4 to 62 miles (70 to 100 km) |

| Product | Description |
|---|---|
| SMCBGSSCX1 | 550m 1000BASE-SX GBIC, based on 50 micron fiber |
| SMCBGLSCX1 | 10Km 1000BASE-LX GBIC, based on 9/10 micron fiber |
| SMCBGZSCX1 | 70Km 1000BASE-ZX GBIC, based on 9 micron fiber |